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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,120	06/26/2003	Norman C. Strole	RPS920030051US1	5586
47052	7590	04/12/2007	EXAMINER	
SAWYER LAW GROUP LLP PO BOX 51418 PALO ALTO, CA 94303			BARNES, CRYSTAL J	
			ART UNIT	PAPER NUMBER
			2121	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	04/12/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/607,120	STROLE, NORMAN C.	
	Examiner	Art Unit	
	Crystal J. Barnes	2121	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 January 2007.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-58 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-58 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 26 June 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

1. The following is a Final Office Action in response to the Amendment received on 26 January 2007. Claims 50-58 have been added. Claims 1-58 are now pending in this application.

Response to Arguments

2. Applicant's arguments filed 26 January 2007 have been fully considered but they are not persuasive.

In response to applicant's argument that the network processor is configured to be used in networking applications, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., networking applications) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from

the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Network processors are typically software programmable devices and have generic characteristics similar to general purpose central processing units that are commonly used in many different types of equipment and products.

Drawings

3. The amendments to the specification to add the reference characters in the description were received on 26 January 2007. These corrections are acceptable.

Specification

4. The amendments to the specification were received on 26 January 2007. These corrections are acceptable.

Claim Objections

5. The amendments to the claims were received on 26 January 2007. These corrections are acceptable.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-58 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 5,281,951 to Okayama.

As per claim 1, the Okayama reference discloses an apparatus for monitoring and control of a complex system comprising: a plurality of sensors (see column 5 lines 56-57, "multi-element fire detectors") for monitoring a plurality of attributes (see column 7 lines 10-14, "smoke, temperature, gas") of the complex system (see column 5 lines 41-42, "fire alarm system"); a table (see column 7 lines 26-28, "table of three fire decision values") including a plurality of entries ("12 combinations of sensor levels of three sensor portions"), each of the plurality of entries ("12

combinations of sensor levels of three sensor portions") indicating at least one action to be taken (see column 7 lines 42-57, "fire probability, level of degree of danger, level of smoldering fire probability") in response to a portion of the plurality of attributes ("smoke, temperature, gas") having particular values (see column 7 lines 58-60, "values in the range of 0 to 1"); and a network processor (see column 13 lines 14-20, "fire receiver or fire control panel RE") coupled with the plurality of sensors ("multi-element fire detectors") and with the table ("table of three fire decision values"), the network processor ("fire receiver or fire control panel RE") for receiving from the plurality of sensors ("multi-element fire detectors") a plurality of statuses ("sensor levels") for the plurality of attributes ("smoke, temperature, gas"), the network processor ("fire receiver or fire control panel RE") further for determining at least one entry ("decision") of the plurality of entries ("12 combinations of sensor levels of three sensor portions") to access based upon the plurality of statuses ("sensor levels"), and for accessing the at least one entry ("decision") to determine a corresponding action ("fire probability, level of degree of danger, level of smoldering fire probability").

As per claim 2, the Okayama reference discloses the plurality of entries ("12 combinations of sensor levels of three sensor portions") corresponds to a plurality

of values (see column 17 lines 64-65, "identification numbers") of a key (see figure 2, "pattern no."), wherein the network processor ("fire receiver or fire control panel RE") further determines at least one corresponding value of the key ("pattern no.") based upon a portion of the plurality of statuses ("sensor levels"), the network processor ("fire receiver or fire control panel RE") determining the at least one entry ("decision") by determining at least one match (see column 1 lines 36-42, "coincides") in the plurality of entries ("12 combinations of sensor levels of three sensor portions") for the at least one corresponding value of the key ("pattern no.").

As per claim 3, the Okayama reference discloses the at least one corresponding value of the key ("pattern no.") is based upon the portion of the plurality of statuses ("sensor levels of three sensor portions") from separate sensors ("smoke, temperature, gas") of the plurality of sensors ("multi-element fire detectors").

As per claim 4, the Okayama reference discloses the at least one corresponding value of the key ("pattern no.") is based upon the portion of the plurality of statuses ("sensor levels of three sensor portions") including more than one status ("smoke, temperature, gas") from a single sensor ("smoke sensor,

temperature sensor, gas sensor") of the plurality of sensors ("multi-element fire detectors").

As per claim 5, the Okayama reference discloses further comprising: a control station ("fire receiver or fire control panel RE") coupled to the plurality of sensors ("multi-element fire detectors") and the network processor ("fire receiver or fire control panel RE"), the control station ("fire receiver or fire control panel RE") receiving the plurality of statuses ("sensor levels of three sensor portions"), placing the plurality of statuses ("sensor levels of three sensor portions") in a plurality of packets (see column 8 lines 43-44, "signal transmission capability") and providing the plurality of packets ("signal transmission capability") to the network processor ("fire receiver or fire control panel RE").

As per claim 6, the Okayama reference discloses the control station ("fire receiver or fire control panel RE") places a portion of the statuses ("sensor levels of three sensor portions") from separate sensors ("smoke sensor, temperature sensor, gas sensor") of the plurality of sensors ("smoke sensor, temperature sensor, gas sensor") into a packet of the plurality of packets ("signal transmission capability").

As per claim 7, the Okayama reference discloses the control station ("fire receiver or fire control panel RE") places a portion of the status ("sensor levels of three sensor portions") into a packet of the plurality of packets ("signal transmission capability"), the portion of the statuses ("sensor levels of three sensor portions") including more than one status ("smoke, temperature, gas") from a single sensor ("smoke sensor, temperature sensor, gas sensor") of the plurality of sensors ("multi-element fire detectors").

As per claim 8, the Okayama reference discloses the packet has a plurality of status fields (see column 8 lines 13-14, "three input layers") for storing the portion of the plurality of statuses ("sensor levels of three sensor portions").

As per claim 9, the Okayama reference discloses the plurality of entries ("12 combinations of sensor levels of three sensor portions") corresponds to a plurality of values of a key ("pattern no."), wherein the network processor ("fire receiver or fire control panel RE") further determines at least one corresponding value of the key ("pattern no.") using a portion of the plurality of status fields ("three input layers"), the network processor ("fire receiver or fire control panel RE") determining the at least one entry ("decision") by determining at least one match

(see column 1 lines 36-42, "coincides") in the plurality of entries for the at least one corresponding value of the key ("pattern no.").

As per claim 10, the Okayama reference discloses the plurality of entries ("12 combinations of sensor levels of three sensor portions") corresponds to a plurality of values of a key ("pattern no."), wherein the network processor ("fire receiver or fire control panel RE") further determines at least one corresponding value of the key ("pattern no.") using a portion of the plurality of status fields ("three input layers"), the network processor ("fire receiver or fire control panel RE") determining the at least one entry ("decision") by determining at least one match (see column 1 lines 36-42, "coincides") in the plurality of entries for the at least one corresponding value of the key ("pattern no.").

As per claim 11, the Okayama reference discloses the corresponding action ("fire probability, level of degree of danger, level of smoldering fire probability") includes issuing (see column 5 lines 50-54, "receiving means") an alarm ("on/off fire alarm system") or a warning (see column 6 line 29, "display" and column 21 lines 10-12, "fire indication").

As per claim 12, the Okayama reference discloses the corresponding action ("fire probability, level of degree of danger, level of smoldering fire probability")

includes a dependent condition ("output layers") and wherein the network processor ("fire receiver or fire control panel RE") provides information to a system processor (see column 12 lines 46-53, "net structure") for further analysis ("interpolation").

As per claim 13, the Okayama reference discloses the corresponding action ("fire probability, level of degree of danger, level of smoldering fire probability") includes continuing normal operation (see column 13 lines 1-5, fire monitoring operation).

As per claim 14, the Okayama reference discloses the corresponding action ("fire probability, level of degree of danger, level of smoldering fire probability") includes using at least one ("smoke sensor, temperature sensor, gas sensor") of the plurality of sensors ("multi-element fire detectors") for closely monitoring a portion of the plurality of attributes ("smoke, temperature, gas").

As per claim 15, the Okayama reference discloses the table ("table") includes a CAM table (see column 6 lines 12, 16, 20, "constants table, terminal address table, definition table").

As per claim 16, the Okayama reference discloses the table ("table") includes a decision tree (see column 7 lines 26-27, "table of three fire decision values").

As per claim 17, the rejection of claim 1 is incorporated and further claim 17 contains limitations recited in claim 1; therefore claim 17 is rejected under the same rationale as claim 1.

As per claim 18, the rejection of claim 2 is incorporated and further claim 18 contains limitations recited in claim 2; therefore claim 18 is rejected under the same rationale as claim 2.

As per claim 19, the rejection of claim 3 is incorporated and further claim 19 contains limitations recited in claim 3; therefore claim 19 is rejected under the same rationale as claim 3.

As per claim 20, the rejection of claim 4 is incorporated and further claim 20 contains limitations recited in claim 4; therefore claim 20 is rejected under the same rationale as claim 4.

As per claim 21, the rejection of claim 5 is incorporated and further claim 21 contains limitations recited in claim 5; therefore claim 21 is rejected under the same rationale as claim 5.

As per claim 22, the rejection of claim 6 is incorporated and further claim 22 contains limitations recited in claim 6; therefore claim 22 is rejected under the same rationale as claim 6.

As per claim 23, the rejection of claim 7 is incorporated and further claim 23 contains limitations recited in claim 7; therefore claim 23 is rejected under the same rationale as claim 7.

As per claim 24, the rejection of claim 8 is incorporated and further claim 24 contains limitations recited in claim 8; therefore claim 24 is rejected under the same rationale as claim 8..

As per claim 25, the rejection of claim 9 is incorporated and further claim 25 contains limitations recited in claim 9; therefore claim 25 is rejected under the same rationale as claim 9.

As per claim 26, the rejection of claim 10 is incorporated and further claim 26 contains limitations recited in claim 10; therefore claim 26 is rejected under the same rationale as claim 10.

As per claim 27, the rejection of claim 11 is incorporated and further claim 27 contains limitations recited in claim 11; therefore claim 27 is rejected under the same rationale as claim 11.

As per claim 28, the rejection of claim 12 is incorporated and further claim 28 contains limitations recited in claim 12; therefore claim 28 is rejected under the same rationale as claim 12.

As per claim 29, the rejection of claim 13 is incorporated and further claim 29 contains limitations recited in claim 13; therefore claim 29 is rejected under the same rationale as claim 13.

As per claim 30, the rejection of claim 14 is incorporated and further claim 30 contains limitations recited in claim 14; therefore claim 30 is rejected under the same rationale as claim 14.

As per claim 31, the rejection of claim 15 is incorporated and further claim 31 contains limitations recited in claim 15; therefore claim 31 is rejected under the same rationale as claim 15.

As per claim 32, the rejection of claim 16 is incorporated and further claim 32 contains limitations recited in claim 16; therefore claim 32 is rejected under the same rationale as claim 16.

As per claim 33, the Okayama reference discloses further comprising the step of: implementing the at least one action (see column 21 lines 10-12, "fire indication").

As per claim 34, the rejection of claim 1 is incorporated and further claim 34 contains limitations recited in claim 1; therefore claim 34 is rejected under the same rationale as claim 1.

As per claim 35, the rejection of claim 2 is incorporated and further claim 35 contains limitations recited in claim 2; therefore claim 35 is rejected under the same rationale as claim 2.

As per claim 36, the rejection of claim 3 is incorporated and further claim 36 contains limitations recited in claim 3; therefore claim 36 is rejected under the same rationale as claim 3.

As per claim 37, the rejection of claim 4 is incorporated and further claim 37 contains limitations recited in claim 4; therefore claim 37 is rejected under the same rationale as claim 4.

As per claim 38, the rejection of claim 5 is incorporated and further claim 38 contains limitations recited in claim 5; therefore claim 38 is rejected under the same rationale as claim 5.

As per claim 39, the rejection of claim 6 is incorporated and further claim 39 contains limitations recited in claim 6; therefore claim 39 is rejected under the same rationale as claim 6.

As per claim 40, the rejection of claim 7 is incorporated and further claim 40 contains limitations recited in claim 7; therefore claim 40 is rejected under the same rationale as claim 7.

As per claim 41, the rejection of claim 8 is incorporated and further claim 41 contains limitations recited in claim 8; therefore claim 41 is rejected under the same rationale as claim 8.

As per claim 42, the rejection of claim 9 is incorporated and further claim 42 contains limitations recited in claim 9; therefore claim 42 is rejected under the same rationale as claim 9.

As per claim 43, the rejection of claim 10 is incorporated and further claim 43 contains limitations recited in claim 10; therefore claim 43 is rejected under the same rationale as claim 10.

As per claim 44, the rejection of claim 11 is incorporated and further claim 44 contains limitations recited in claim 11; therefore claim 44 is rejected under the same rationale as claim 11.

As per claim 45, the rejection of claim 12 is incorporated and further claim 45 contains limitations recited in claim 12; therefore claim 45 is rejected under the same rationale as claim 12.

As per claim 46, the rejection of claim 13 is incorporated and further claim 46 contains limitations recited in claim 13; therefore claim 46 is rejected under the same rationale as claim 13.

As per claim 47, the rejection of claim 14 is incorporated and further claim 47 contains limitations recited in claim 14; therefore claim 47 is rejected under the same rationale as claim 14.

As per claim 48, the rejection of claim 15 is incorporated and further claim 48 contains limitations recited in claim 15; therefore claim 48 is rejected under the same rationale as claim 15.

As per claim 49, the rejection of claim 16 is incorporated and further claim 49 contains limitations recited in claim 16; therefore claim 49 is rejected under the same rationale as claim 16.

As per claim 50, the Okayama reference discloses the networked processor ("fire receiver or fire control panel RE") is configured to be used in networking applications (see Abstract, "fire monitoring system").

As per claim 52, the Okayama reference discloses the plurality of packets ("signal transmission capability") is a plurality of computer network packets (see

column 8 lines 14-18, "signals from a smoke sensor, signals from a temperature sensor and signals from a gas sensor").

As per claim 52, the Okayama reference discloses the plurality of packets ("signals from a smoke sensor, signals from a temperature sensor and signals from a gas sensor") is a plurality of Ethernet packets (see column 5 lines 55-61, "signal transmission").

As per claim 53, the rejection of claim 50 is incorporated and further claim 53 contains limitations recited in claim 50; therefore claim 53 is rejected under the same rationale as claim 50.

As per claim 54, the rejection of claim 51 is incorporated and further claim 53 contains limitations recited in claim 51; therefore claim 53 is rejected under the same rationale as claim 51.

As per claim 55, the rejection of claim 52 is incorporated and further claim 55 contains limitations recited in claim 52; therefore claim 55 is rejected under the same rationale as claim 52.

As per claim 56, the rejection of claim 50 is incorporated and further claim 56 contains limitations recited in claim 50; therefore claim 56 is rejected under the same rationale as claim 50.

As per claim 57, the rejection of claim 51 is incorporated and further claim 57 contains limitations recited in claim 51; therefore claim 57 is rejected under the same rationale as claim 51.

As per claim 58, the rejection of claim 52 is incorporated and further claim 58 contains limitations recited in claim 52; therefore claim 58 is rejected under the same rationale as claim 52.

8. Claims 1, 17 and 34 remain rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,581,022 B2 to Murakami.

As per claim 1, the Murakami reference discloses an apparatus for monitoring and control of a complex system comprising: a plurality of sensors (see column 3 lines 40-42, "internal-air temperature sensor 14, an external air temperature sensor 15, an engine-water temperature sensor 16, a sun load sensor 17 and a vehicle-speed sensor 18") for monitoring a plurality of attributes ("internal-air temperature, external air temperature, engine-water temperature, sun load and vehicle-speed") of the complex system (see column 1 lines 7-8, "air-conditioning apparatus of a vehicle"); a table (see column 3 lines 45-48, "a sensor-voltage-to-temperature conversion table 20, a sensor-failure substitute-value

table 21") including a plurality of entries ("relations between the signals output by the sensors 14 to 18 and parameter values"), each of the plurality of entries ("relations between the signals output by the sensors 14 to 18 and parameter values, substitute value") indicating at least one action to be taken (see column 4 lines 49-60, "compute outlet temperature, control air-flow quantity of the blower 5, control switchable positions of the outlets flaps 10, and open air-mix flaps 9") in response to a portion of the plurality of attributes ("internal-air temperature, external air temperature, engine-water temperature, sun load and vehicle-speed") having particular values ("failure"); and a network processor (see column 3 lines 51-57, "input unit 19" and column 4 lines 4-7, "control unit 12") coupled with the plurality of sensors ("internal-air temperature sensor 14, an external air temperature sensor 15, an engine-water temperature sensor 16, a sun load sensor 17 and a vehicle-speed sensor 18") and with the table ("a sensor-voltage-to-temperature conversion table 20, a sensor-failure substitute-value table 21"), the network processor ("input unit 19, control unit 12") for receiving from the plurality of sensors ("internal-air temperature sensor 14, an external air temperature sensor 15, an engine-water temperature sensor 16, a sun load sensor 17 and a vehicle-speed sensor 18") a plurality of statuses (see columns 3-4 lines 66-7,

"signals for set temperature, vehicle-internal temperature, vehicle-external-air temperature, engine-water temperature, sun load vehicle speed, failure status") for the plurality of attributes ("internal-air temperature, external air temperature, engine-water temperature, sun load and vehicle-speed"), the network processor ("input unit 19, control unit 12") further for determining at least one entry ("substitute value") of the plurality of entries ("relations between the signals output by the sensors 14 to 18 and parameter values, substitute value") to access based upon the plurality of statuses "signals for set temperature, vehicle-internal temperature, vehicle-external-air temperature, engine-water temperature, sun load vehicle speed, failure status"), and for accessing the at least one entry ("substitute value") to determine a corresponding action ("compute outlet temperature, control air-flow quantity of the blower 5, control switchable positions of the outlets flaps 10, and open air-mix flaps 9").

As per claim 17, the rejection of claim 1 is incorporated and further claim 17 contains limitations recited in claim 1; therefore claim 17 is rejected under the same rationale as claim 1.

As per claim 34, the rejection of claim 1 is incorporated and further claim 34 contains limitations recited in claim 1; therefore claim 34 is rejected under the same rationale as claim 1.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Crystal J. Barnes whose telephone number is 571.272.3679. The examiner can normally be reached on Monday-Friday alternate Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on 571.272.3687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


CRYSTAL J. BARNES
PRIMARY PATENT EXAMINER
CJB
10 April 2007